

Acid base polymer blends and membranes useful as polymer electrolyte membranes in fuel cells, pervaporation and reverse osmosis

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Abstract of DE19817374

Acid-base polymer blends or acid-base polymer blend membranes are produced by reaction of a solution of a polymeric sulfonic acid or sulfonic acid salt and an imidazole group or benzimidazole group containing polymer, optionally under addition of LiCl in a dipolar-aprotic solvent and evaporation of the solvent. An Independent claim is included for production of anionic exchange blend polymer or membrane by dissolving an anion exchange polymer or its tertiary basic nitrogen containing precursor in a dipolar aprotic solvent, addition of an imidazole or benzimidazole group containing polymer or solution thereof, followed by addition of a low molecular weight monohalogen and/or dihalogen compound to the solution and evaporation of the solvent, at increased temperature and optionally low pressure.

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